

Schedule of Accreditation



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| Organisation Name | Mater Private Hospital |
| Trading As | |
| INAB Reg No | 191MT |
| Contact Name | Fiona O'Brien |
| Address | Blood Transfusion Department, Eccles Street, Dublin, D7 |
| Contact Phone No | 01-8858346 |
| Email | Fiona.O'Brien@materprivate.ie |
| Website | |
| Accreditation Standard | EN ISO 15189 |
| Standard Version | 2012 |
| Date of award of accreditation | 22/04/2008 |
| Scope Classification | Microbiology and virology |
| Scope Classification | Blood Transfusion Science |
| Scope Classification | Haematology |
| Scope Classification | Immunology |
| Scope Classification | Histopathology and cytopathology |
| Scope Classification | Chemical pathology |
| Services available to the public ¹ | |

¹ Refer to document on interpreting INAB Scopes of Accreditation

| Sites from which accredited services are delivered | | |
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| (the detail of the accredited services delivered at each site are on the Scope of Accreditation) | | |
| | | |
| | Name | Address |
| 1 | Head Office | Blood Transfusion Department, Eccles Street, Dublin, D7 |

Scope of Accreditation

Head Office

Blood Transfusion Science

Category: A

| Medical pathology field - Test | Test/assay | Specimen Type | Equipment/Technique | Method (CE/Non-CE/In house developed/based on standard method) | Range of measurement | Std. ref & SOP |
|---|-------------------------|--------------------|----------------------------------|--|----------------------|--------------------------|
| 1020 Transfusion science - .01 Blood grouping including ABO, Rh(D) and other antigens by manual methods | ABO Rh D Blood Grouping | Red Cells & Plasma | 1. Manual 2. IH500 | Automated & Manual | N/A | LM-BT-0002 LS-BT-0041 |
| 1020 Transfusion science - .03 Blood group antibody screen | Antibody Screening | Plasma/Serum | 1. Manual 2. IH500 | Automated & Manual | N/A | LM-BT-0002 LS-BT-0041 |
| 1020 Transfusion science - .04 Identification of blood group antibodies | Antibody Identification | | 1. Manual 2. IH500 | Automated & Manual | N/A | LM-BT-0010 |
| 1020 Transfusion science - .05 Cross match compatible donor units | Compatibility Testing | Red Cells & Plasma | 1. Manual 2. Electronic Issue | 1. Manual 2. Electronic Issue | N/A | LM-BT-0007 LS-BT-0047 |
| 1020 Transfusion science - .06 Red cell phenotyping | Antigen Typing | Red Cells | 1. Manual 2. IH500 | Automated & Manual | N/A | LM-BT-0014 |
| 1020 Transfusion science - .99 Miscellaneous tests | Direct Coombs | | 1. Manual 2. IH500 | Automated & Manual | N/A | LM-BT-0020 |

a The hospital blood bank has been assessed and is competent to comply with Articles 14 and 15 of the EU Directive 2002/98/EC (S.I. 360/2005 and S.I. 547/2006)

Category: A

| Medical pathology field - Test | Test/assay | Specimen Type | Technique | Equipment/Range of Measurement | Method (CE/Non-CE/In house developed/based on standard method) | Std. Ref & SOP |
|---|-------------------|---------------|--------------------------|--------------------------------|--|----------------|
| 1061 Clinical Chemistry - .01 Analytes in general use in cardiac, liver function, lipid, renal and other profiles and metabolic studies | Albumin | Serum | Bromocresol green | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Alk Phos | Serum | Roche AMP Buffer | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | ALT | Serum | Tris buffer without p5p | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Amylase | Serum/Urine | Roche liquid stable pnp7 | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | AST | Serum | Tris buffer without p5p | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Bicarbonate | | Enzymatic | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Calcium | Serum/Urine | NM-BAPTA | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Calcium corrected | Serum | Calculation | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Chloride | Serum / urine | ISE indirect | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Cholesterol HDL | Serum | Direct HDL | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Cholesterol LDL | | Direct LDL | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |

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|--|------------------------|------------------------------------|------------------|-----------------------------|-------------|
| Cholesterol Total | Serum | Cholesterol oxidase | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| CK | Serum | CK-NAC(IFCC) | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Creatinine /creatinine clearance serum / urine | Serum / urine | Roche Creatinine Enzymatic | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| CRP | Serum | Immunoturbidimetric | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Digoxin | | Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| eGFR | Serum/Urine | Calculation | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Gamma GT | Serum | Gamma glut3carb4nitro | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Globulin | | Calculation | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Glucose | Serum/Plasma/CSF/Urine | Hexokinase | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Iron | Serum | FerroZine without deproteinization | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| LDH | Serum | L to P IFCC | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Magnesium | Serum | Xylidyl blue | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| NT-PRO-BNP | | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Phosphate | | Phosphomolybdate UV | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Potassium | Serum / urine | Indirect ISE | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Sodium | | Indirect ISE | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Total Bilirubin | Serum | Dichlorophenyl Diazonium | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| Triglyceride | Serum | Lipase | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |

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| | Urate | Serum | Uricase | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Urea | Serum / urine | Urease | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| 1061 Clinical Chemistry - .02 Proteins, quantitative analysis | hs-Troponin T | Serum | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Total Protein | Serum/Urine/CSF | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| 1061 Clinical Chemistry - .06 Blood pH and gas tensions | HbA1c | Whole Blood | HPLC | Adams Arkray 8160 | CE Marked | LS-BIO-0029 Operation of the Arkray A1C HA-8160 Analyser System LM-BIO-0012 Determination of HBA1C in a Patient Sample |
| 1061 Clinical Chemistry - .10 Drugs for therapeutic monitoring | Gentamicin | Serum | EIA | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Vanc | | KIMS | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| 1061 Clinical Chemistry - .20 Hormones | Beta hCG | | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Cortisol | | Immunoassay | Roche Cobas 6000 | CE marked | LM-BIO-0014 |
| | Free T4 | | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | PTH | | Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO_0024 |
| | TSH | | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| 1061 Clinical Chemistry - .40 Iron studies | Ferritin | | ECLIA | Roche Cobad 6000 | CE | LM-BIO-0014 |
| | Transferrin | | Immunoturbidimetric | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Transferrin Saturation | Calculation | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 | |

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| 1061 Clinical Chemistry - .45 Vitamin B12 and folate | B12 | | ECLIA | Roche Cobas 6000 | CE | LM-BIO-0014 |
| | Folate | | ECLIA | Roche Cobas 6000 | CE | LM-BIO-0014 |
| 1061 Clinical Chemistry - .47 Vitamin assays | Vitamin D | Serun | Immunoassay | Roche Cobas 6000 | CE | LM-BIO-0014 |
| 1061 Clinical Chemistry - .50 Protein and peptide tumour markers | Ca125 | Serum | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | Ca153 | | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | CEA | | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| | TPSA | | ECLIA Immunoassay | Roche Cobas 6000 | CE based on standard method | LM-BIO-0014 |
| 1061 Clinical Chemistry - .60 Glycohaemoglobins | HbA1c | Whole Blood | HPLC | Adams Arkray 8160V | CE based on standard method | LM-BIO-0012 Determination of HBA1C in a Patient Sample |

Category: A

| Medical pathology field - Test | Test/Assay | Specimen Type | Technique | Range of Measurement/Equipment | Method (CE/Non-CE/In house developed/based on standard method) | Std. Ref & SOP |
|---|-----------------------------------|---------------|---|--------------------------------|--|---|
| 1030 Haematology - .01 Blood counts | Automated Full Blood Counts | Whole Blood | Fluorescence Flow Cytometry Method (FCM) – a semiconductor laser (639nm). Hydrodynamic Focussing DC detection – RBC and PLT analysis. • SLS Haemoglobin Method – cyanide-free HGB analysis. | Automated using Sysmex XN 2000 | CE Marked | LS-HAEM-0042 |
| 1030 Haematology - .02 Visual examination of blood films | Visual examination of blood films | | Modified Wrights Stain | Hematek | CE Marked | LM-HAEM-0028 Preparation, Microscopic Examination & Reporting of Blood Films LM-HAEM-0043 Staining of Blood Films using the Hematek Staining Machine LS-HAEM-0016 The Handling of Specimens in the Haematology Department |

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| 1030 Haematology - .03 Erythrocyte sedimentation rate | Erythrocyte Sedimentation Rate | | The surface layer of the erythrocytes is detected by means of a change of light intensity at the beginning of the measuring process and after one hour | Desaga S2000 | CE Marked | LM-HAEM-0042 ESR Determination using the Desaga S2000 & Sedivette Back-up LS-HAEM-0016 The Handling of Specimens in the Haematology Department |
| 1030 Haematology - .06 Automated reticulocyte counts | Automated Reticulocyte Counts | | • Fluorescence Flow Cytometry Method (FCM) | Automated using Sysmex XN 2000 | CE Marked | LS-HAEM-0042 OPERATION, FBC AND RETICULOCYTE ANALYSIS USING SYSMEX XN-2000 |
| 1030 Haematology - .30 Tests for haemoglobin variants and thalassaemia | Sickle Cell Screen | | Haemoglobin solubility test method | Manual macroscopic visualisation | CE Marked | LM-HAEM-0022 Sickle Cell Disease and Sickle Cell Trait Screening LS-HAEM-0016 The Handling of Specimens in the Haematology Department LS-HAEM-0020 Operation & Maintenance of MPW-223e Centrifuge, Stuart Waterbath, Angelantoni Fridge |
| 1030 Haematology - .41 General haemostasis related tests | General Haemostasis tests including PT, INR, APTT, Fibrinogen quantation, D-dimer, correction studies | Plasma | Mechanical clotting system | Stago compact Max | CE | LM-HAEM-0046 |

Histopathology and Cytopathology

Category: A

| Medical pathology field - Test | Test/assay | Specimen Type | Equipment/Technique | Method (CE/Non-CE/In house developed/based on standard method) | Range of measurement | Std. ref & SOP |
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| 1051 Histopathology - .01 Processing fixed specimens for Histopathological testing | Automated Embedding | Human Tissue | Sakura Autotec a120 | Based on Standard Method | N/A | LS-HIST-0064 Operation of the Tissue Tek A120 Auto Embedder |
| | Automated Haematoxylin | | Automated staining and coverslipping of slides on Leica Multistainer ST and Leica Coverslipper CV. Manual disposal of used chemicals and stains. | Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet | CE/Based on standard method. | Automated Haematoxylin and Eosin Staining LM-HIST-0009 Staining LM-HIST-0010 Stains & Solutions LS-HIST-0049 Operation of the Leica Histocore Spectra ST and CV LS-HIST-0017 Operation of the Chemflow Fume Cabinet LS-HIST-0037 Disposal of Chemical and Clinical Waste |
| | | | Leica Spectra ST Staining & Spectra CV Coverslipper | CE | CE/Based on standard method. | TBC |
| | Cover slipping & sorting | | Automated coverslipping of slides using Leica Multistainer ST and Leica CV. Manual | Leica Multistainer ST and Leica CV Nikon Microscope | CE/Based on standard method. | Coverslipping and Sorting LM-HIST-0011 Coverslipping in Histology & Cytology |

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| | | checking and labelling and distribution of slides. | | | LS-HIST-0010 Operation of the Nikon Microscope LS-HIST-0017 Operation of the Chemflow Fume Cabinet LS-HIST-0024 Labeling, Sorting and Checking Slides and Recording Numbers LS-HIST-0049 Operation of the Leica Histocore Spectra ST and CV |
| | Coverslipping and Sorting | Automated coverslipping of slides using Leica Spectra ST and Leica Spectra CV. Manual checking, labelling and distribution of slides. | CE | CE/Based on standard method. | TBC |
| | Cut up | Manual dissection of Human tissue samples using the G2 speech system in AFOS cut up room | AFOS Cut Up Room Balances-Ohous, Denver | N/A | LM-HIST-0022 Principles of good practice and training manual for Medical Scientists involved in Cut Up LS-HIST-0016 Operation of Balances in Histology LS-HIST-0044 AFOS Cut Up Room LS-HIST-0050 Operation of the G2speech |
| | Embedding | Manual method of impregnating Human tissue samples with paraffin wax using the Tissue Tek TEC 5 Embedding Centre, to | Para Trimmer Tissue Tek TEC 5 Embedding Centre | CE/Based on standard method. | LM-HIST-0007 Embedding LS-HIST-0039 Operation of Para Trimmer LS-HIST-0045 Operation of Tissue |

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| | | create a wax tissue block. | | | Tek TEC 5 Embedding Centre |
| Microtomy | | Manual and automated use of microtomes for cutting tissue sections onto glass slides. | Leica RM 2255 (1-4) RA Lamb Waterbaths Histology Ovens | CE/Based on standard method. | Manual and motorized sectioning of processed tissue LM-HIST-0008 Cutting of Paraffin Blocks LS-HIST-0004 Operation of the Microtomes LS-HIST-0006 RA Lamb Waterbaths LS-HIST-0014 Operation of the Histology Ovens |
| Specimen Reception Automated and Manual Haematoxylin and Eosin Staining Coverslipping | | Manual labelling and entering specimens onto LIS. Automated printing of cassettes using the Leica IPC Automated Cassette | Leica IPC Automated Cassette Printer | CE/Based on standard method. | LS-LIS-0004 Operation of the Clinisys Laboratory Information Management System in Histology LM-HIST-0001 Specimen Reception, Labeling & Charging LM-HIST-0004 Fixation & Decalcification LS-HIST-0055 Operation of the Leica IPC Automated Cassette Printer |
| Tissue processing | | Automated method of xylene, alcohol, paraffin wax infiltration of Human tissue samples using the VIP Tissue Processor/ Leica ASP6025 | VIP Tissue Processor Leica ASP6025 Tissue Processor | Based on standard method | LM-HIST-0006 Tissue Processing LS-HIST-0032 Operation of VIP Tissue Processor LS-HIST-0054 Operation of the Leica ASP6025 |

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| 1051 Histopathology - .02 Processing fresh specimens for frozen section examination | Cut-up Frozen section cryotomy and staining | Manual weighing, cutting of fresh tissue sample in AFOS cut up room. Manual use of Leica Cryostat to section tissue. Manual staining and coverslipping and labelling of slides. Manual entering of specimen details onto LIS, automated printing of cassette using Leica IPC Automated Cassette Printer | Leica Multistainer Spectra and Leica Coverslipper CV Leica Cryostat CM1950 Balances-Ohous, Denver Chemflow Fume Cabinet Leica IPC Automated Cassette Printer | Based on standard method | Cryotomy and Staining LM-HIST-0002 Frozen Sections LM-HIST-0009 Staining LM-HIST-0011 Coverslipping in Histology & Cytology LS-HIST-0049 Operation of the Leica Histocore Spectra ST and CV LS-HIST-0009 Operation of the Leica Cryostat CM1950 LS-HIST-0044 AFOS Cut Up Room LS-HIST-0016 Operation of the Balances in Histology LS-HIST-0017 Operation of the Chemflow Fume Cabinet LS-HIST-0055 Operation of the Leica IPC Automated Cassette Printer |
| | Specimen Reception | Manual accepting, labelling and entering of specimens onto the LIS system. | N/A | N/A | LM-HIST-0001 Reception, Labeling & Charging |
| 1051 Histopathology - .03 Histochemistry | Alcian Blue | Manual staining of special stain slides. Automated finishing | Nikon Microscope Leica Multistainer ST and Leica | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |

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| | | special' and coverslipping using Leica Multistainer ST5020 and Leica Coverslipper CV5030. Manual checking labelling and sorting of slides. | Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | | |
| | Alcian Blue/PAS | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| | Congo Red (Amyloid) | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| | Diastase - PAS | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| | Gram | Manual staining of special stain slides. Automated 'finishing special' and | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |

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| | | coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Chemflow Fume Cabinet Balances- Ohous, Denver | | |
| Millers Elastic | | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| Periodic Acid Schiffs (PAS) | | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| Perls Prussian Blue | | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV5. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010 Stains & Solutions, LM-HIST-0011 Coverslipping in Histology & Cytology, LS-HIST-0016 Operation of the Balances in Histology, LS-HIST-0010 Operation of the Nikon Microscope, LS-HIST-0017 Operation of the Chemflow Fume Cabinet, LS-HIST-0024 Labeling, Sorting and Checking Slides and |

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| | | | | Recording Numbers, LS-HIST-0049 Operation of the Leica Histocore Spectra ST and CV |
| Reticulin (Gordon & Sweets) | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohaus, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| Shikata Orcein | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohaus, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| Special stains | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV5. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohaus, Denver | CE/Non-CE/Based on standard method | LM-HIST-0009 Staining |
| Trichrome (Gomoris) | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |

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| | | | CV. Manual checking labelling and sorting of slides. | Balances- Ohous, Denver | | |
| | Trichrome (Masson) | | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| | Van Gieson | | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| | Ziehl Neelsen (ZN) | | Manual staining of special stain slides. Automated 'finishing special' and coverslipping using Leica Multistainer ST and Leica Coverslipper CV. Manual checking labelling and sorting of slides. | Nikon Microscope Leica Multistainer ST and Leica Coverslipper CV Chemflow Fume Cabinet Balances- Ohous, Denver | Based on standard method | LM-HIST-0010, 0011, 0016, 0010, 0017, 0024, 0049 |
| 1051 Histopathology - .09 Immunohistochemistry | Actin | Histology | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| | Actin SM | | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with |

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| | | | | the Leica Bond III in Histology |
| | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| AE1/AE3 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| BCL2 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| BCL6 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| BEREP4 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Ca 125 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Calponin | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Calretinin | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with |

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| | | | | the Leica Bond III in Histology |
| CAM5.2(Cyto8/18) | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| CD 20 (L26) | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| CD10 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| CD117 (c-kit) | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| CD138 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| CD15 (Leu M1) | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| CD23 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| CD3 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with |

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| CD30 (Ki1) |
| CD34 |
| CD4 |
| CD45 (CLA) |
| CD5 |
| CD68 (KP1) |
| CD79a |
| CD8 |

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| | | | the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with |

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| |
| CDX2 |
| CEA |
| Chromogranin |
| Cyclin D1 |
| Cyt 903(HMWCK) |
| Cyto 20 |
| Cyto 5/6 |
| Cyto 7 |

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| | | | the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |

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| | | | | the Leica Bond III in Histology |
| D240 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Desmin | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Dual Ck903/racemase | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Dual Napsin /TTF1 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| E-Cadherin | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| EMA | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| ER | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| GATA3 | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with |

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| | | | | | the Leica Bond III in Histology |
| H. pylori (HLO) | | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| HMB45 | | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Immunohistochemistry staining methods | Human tissue | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and Coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking an sorting of slides. | Nikon Microscope Chemflow Fume Cabinet | CE/Based on standard method. | LM-HIST-0011 Coverslipping in Histology & Cytology |
| Kappa | Histology | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Lambda | | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| Melan A | Human tissue | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |

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| | | Manual checking an sorting of slides. | slides. Nikon Microscope | | |
| MLH1 | Histology | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| MSH2 | | Immunostainer | CE | N/A | LS-HIST-048 Operation of and Immunostaining with the Leica Bond III in Histology |
| MUM1 | Human tissue | Immunostainer | CE | N/A | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| Napsin A | | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST5020 and Leica Coverslipper CV5030. Manual checking an sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST5020 and Leica Coverslipper CV5030. Chemflow Fume Cabinet. Manual checking an sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| P16 | | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| P53 | | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |

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| | | slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | | |
| PR | | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| PSA | | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| PSMA | | Immunostainer | CE | N/A | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| Racemase | | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| S-100 | | Automated staining of immuno slides using the Leica Bond III. | Leica Bond III Immunostainer Leica Multistainer | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |

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| | | Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | | |
| | SMMS | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST5020 and Leica Coverslipper CV5030. Manual checking an sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST5020 and Leica Coverslipper CV5030. Chemflow Fume Cabinet. Manual checking an sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| | Synaptophysin | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| | TTF1 | Automated staining of immuno slides using the Leica Bond III. Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | Leica Bond III Immunostainer Leica Multistainer ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |
| | Vimentin WT1 | Automated staining of immuno slides using the Leica Bond III. | Leica Bond III Immunostainer Leica Multistainer | CE/Based on standard method. | LS-HIST-0010, 0017, 0024, 0048, 0049 |

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| | | | Automated Finishing and coverslipping of slides using Leica Multistainer ST and Leica Coverslipper CV. Manual checking and sorting of slides. | ST and Leica Coverslipper CV. Chemflow Fume Cabinet. Manual checking and sorting of slides. Nikon Microscope | | |
| 1052 Cytopathology - .02 Non gynaecological cytology | Non gynaecological cytology, including Smears, Cytospin Preps and Cell Blocks, Automated Staining Papanicolaou and Manual Staining MGG | Human Tissue or Fluid | Cytospin Thin Prep2000, Leica Spectra ST & CV, Chemflow Fume Cabinet | CE | CE/Based on standard method. | TBC |
| | Non gynaecological cytology, including Smears Cytospin preps and Cell Blocks Automated Staining Papanicolaou Manual Staining MGG | | Cytospin ThinPrep2000 Leica Multistainer ST5020 and Leica Coverslipper CV5030 Chemflow Fume Cabinet | CE | N/A | LM-CYT-002 Specimen Preparation and Fixation LM-CYT-004 Cytology Staining Methods LM-HIST-0011 Coverslipping in Histology & Cytology LS-HIST-0024 Labeling, Sorting and Checking Slides & Recording Numbers |

Immunology

Category: A

| Medical pathology field - Test | Test/Assay | Specimen Type | Equipment/Technique | Method (CE/Non-CE/In house developed/based on standard method) | Range of measurement | Std. Ref & SOP |
|---|--|---------------|---------------------|--|----------------------|---|
| 1040 Immunology - .01 Quantitative investigation of immunoglobulins G,A,M and D in body fluids | IgA, IgG, IgM | Serum | Immunoturbidimetric | Optilite Special Protein Analyser | CE Marked | LM-IMM-0019 Individual Tests Performed on the Optilite Optimised Protein SystemI |
| 1040 Immunology - .02 Qualitative investigation of immunoglobulins G,A,M and D in body fluids | Serum Electrophoresis Immunofixation | Serum & Urine | Agarose Gel | Hydrasys 2 Scan | CE Marked | LM-IMM-0008 Electrophoresis of Serum and Urines LM-IMM-0012 Immunofixation of Serum and Urine LS-IMM-0013 Operation of the Hydrasys 2 |
| 1040 Immunology - .14 b2- microglobulin | Beta 2 microglobulin | Serum | Immunoturbidimetric | Optilite Special Protein Analyser | CE marked | LM-IMM-0019 Individual Tests Performed on the Optilite Optimised Protein SystemI |
| 1040 Immunology - .99 Miscellaneous tests | Kappa free light chains | | Immunoturbidimetric | Optilite Special Protein Analyser | CE marked | LM-IMM-0019 Individual Tests Performed on the Optilite Optimised Protein SystemI |
| | Lambda free light chains | | Immunoturbidimetric | Optilite Special Protein Analyser | CE marked | LM-IMM-0019 Individual Tests Performed on the Optilite Optimised Protein SystemI |

Microbiology and Virology

Category: A

| Medical pathology field - Test | Test/assay | Specimen Type | Equipment/Technique | Method (CE/Non-CE/In house developed/based on standard method) | Range of measurement | Std. ref & SOP |
|--|--|--|------------------------|--|--------------------------|---|
| 1011 Macroscopic examination and description | Examination of faecal, sputa samples | Faeces, sputum | Visual assessment | None | Based on standard method | LM-MICRO-0067 Investigation of Faeces Samples LM-MICRO-0066 Investigation of Sputum, Bronchial Washings and associated specimens |
| 1012 Preparation of films on glass slides followed by microscopic examination with or without fixation and staining with dyes as required - .01 Microscopic examination for general bacteriology purposes (including enumeration and description of human cells) | Cell count for body fluids | Body fluids, CSF | Microscopy: cell count | Nikon microscope | Based on standard method | LM-MICRO-0019 Investigation of CSF |
| | Examination of urine samples | Urine | Microscopy: cell count | Nikon microscope | Based on standard method | LM-MICRO-0022 Investigation of Urine |
| | Gram stain | Body fluids, pus, CSF, HVS, Eye | Microscopy | Nikon microscope | Based on standard method | LM-MICRO-0031 Performing a Gram Stain |
| 1013 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring | Isolation of significant pathogens in clinical samples | Fluids, CSF, pus, tissue, bone, HVS, Endocervical swab, penile/ urethral swab, IUCD, Ear/ eye/ nose/ | Culture | PolEko Incubator Euroclone CO2 Incubator Oxoid atmospheric generation system | Based on standard method | LM-MICRO-0034, 0023, 0019, 0022, 0063, 0064, 0065, 0067 |

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| for growth - .01 Culture of general bacteria | | throat/ mouth swabs, wound swabs, tips, drains, urine, stool. | | | | |
| | | Sputum, Bronchial washing | Culture | PolEko Incubator Euroclone CO2 Incubator | Based on standard method | LM-MICRO-0066 Investigation of Sputum, Bronchial Washings and associated specimens |
| | Screening for MRSA, CRE, VRE | Nose, throat, groin, rectal swabs | Culture | PolEko Incubator | Based on standard method CE marked chromogenic media | LM-MICRO-0034 Investigation of Screening Specimens LM-MICRO-0023 Inoculation of Culture Media LM-MICRO-0019 Investigation of CSF LM-MICRO-0022 Investigation of Urine LM-MICRO-0063 Investigation of ENT Specimens LM-MICRO-0064 Investigation of Sterile Fluids LM-MICRO-0065 Investigation of Swabs, Tissue, IV Cannulae and associated specimens LM-MICRO-0067 Investigation of Faeces Samples |
| 1013 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .02 Culture of fungi | Inoculation and incubation of plates | Bronchial washing, Sputa, Wound Swab, Tissue, Sterile Fluid, CSF, Ear Swab, Eye Swab, Tip | Culture | PolEko Incubator Memmert Incubator | Based on standard method | LM-MICRO-0036 Investigation of Fungal Specimens |
| 1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and | Anti HCV | Serum | Immunoassay | Roche Cobas 6000 | CE marked | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 |

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| appropriate techniques - .03 Enzyme immunoassay, | | | | | | Individual Tests Performed on the Roche Cobas Analyser |
| Anti-HAV IgM | | Immunoassay | Roche Cobas 6000 | CE Marked | | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 Individual Tests Performed on the Roche Cobas Analyser |
| Anti-HAV Total | | Immunoassay | Roche Cobas 6000 | CE Marked | | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 Individual Tests Performed on the Roche Cobas Analyser |
| Anti-HBc | | Immunoassay | Roche Cobas 6000 | CE Marked | | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 Individual Tests Performed on the Roche Cobas Analyser |
| Anti-HBs | | Immunoassay | Roche Cobas 6000 | CE Marked | | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 Individual Tests Performed on the Roche Cobas Analyser |
| HBsAg | | Immunoassay | Roche Cobas 6000 | CE Marked | | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 Individual Tests Performed on the |

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| | | | | | | Roche Cobas Analyser |
| | HIV | | Immunoassay | Roche Cobas 6000 | CE Marked | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 Individual Tests Performed on the Roche Cobas Analyser |
| | Syphilis TP | | Immunoassay | Roche Cobas 6000 | CE Marked | LS-SERO-0001 Operation of the Roche Cobas LM-SERO-0001 Individual Tests Performed on the Roche Cobas Analyser |
| 1015 Detection and/or identification of bacterial, parasite, fungal and viral nucleic acids - .01 Nucleic acid probe hybridization, CE marked commercial systems | Influenzae A & B, RSV, C.Diff | Nasopharyngeal & Nasopharyngeal Aspirate | GeneXpert | PCR | N/A | LM-MICRO-0076 |
| 1016 Identification of cultured bacteria and fungi using non-nucleic acid based techniques - .01 Biochemical methods , CE marked commercial systems | Use of commercial identification systems for bacteria Use of Vitek 2 Compact | Fluids, CSF, pus, tissue, bone, HVS, Endocervical swab, penile/ urethral swab, IUCD, Ear/ eye/ nose/ throat/ mouth swabs, wound swabs, tips, drains, urine, stool. | Culture and sensitivity, biochemical tests, commercial identification systems, automated sensitivity testing, manual sensitivity testing. | Vitek 2 Compact | CE Marked | LM-MICRO-0058 The Oxidase Test LM-MICRO-0054 Campylobacter Identification LM-MICRO-0059 The Catalase Test LM-MICRO-0046 API Identification System LM-MICRO-0048 Isolate Identification using the Rapid System LM-MICRO-0061 Use of Vitek Identification and Antimicrobial Susceptibility Testing |

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| | | | | | | Cards LM-MICRO-0060 Use of Shigella Polyvalent Agglutinating Sera LM-MICRO-0045 Use of the Streptex Kit and the PYR Test LM-MICRO-0056 Staphylococcus aureus Identification using the Staphaurex Plus Kit LM-MICRO-0050 The Wellcolex Colour Salmonella Kit LM-MICRO-0052 The E.coli O157 Test |
| 1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly growing aerobes) - .01 Anaerobes | Determination of MIC | | MIC Strip | PolEko Incubator Euroclone CO2 Incubator | CE Marked | LM-MICRO-0027 Susceptibility Testing |
| | | MIC | MIC Strip | Oxoid Atmosphere Generation system | CE Marked | LM-MICRO-0027 Susceptibility Testing |
| | Disc diffusion sensitivity testing | | EUCAST disc diffusion | PolEko Incubator Euroclone CO2 Incubator | Based on standard method | LM-MICRO-0027 Susceptibility Testing |
| | Use of the Vitek 2 Compact | Fluids, CSF, pus, tissue, bone, HVS, Endocervical swab, penile/ urethral swab, IUCD, Ear/ eye/ nose/ throat/ mouth swabs, wound swabs, tips, drains, urine, stool. | Automated sensitivity testing | Vitek 2 compact | CE Marked | LM-MICRO-0027 Susceptibility Testing |
| | | | Automated sensitivity testing | Vitek 2 compact | CE Marked | LM-MICRO-0027 Susceptibility Testing |

